App No.: 09/270141   Docket No.: SMQ-011/P3610
Inventor: Gary D. FOSTER
Title: A SYSTEM AND METHOD FOR THE GLOBAL DISTRIBUTION
OF DATA (AS AMENDED)
REPLACEMENT SHEET

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Publishing
Master   12

16   Repository   Repository   16

Client
System   Client
System   Client
System
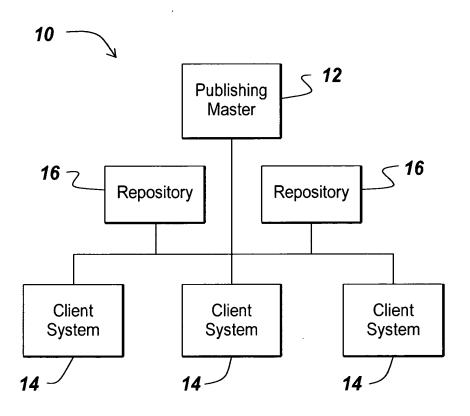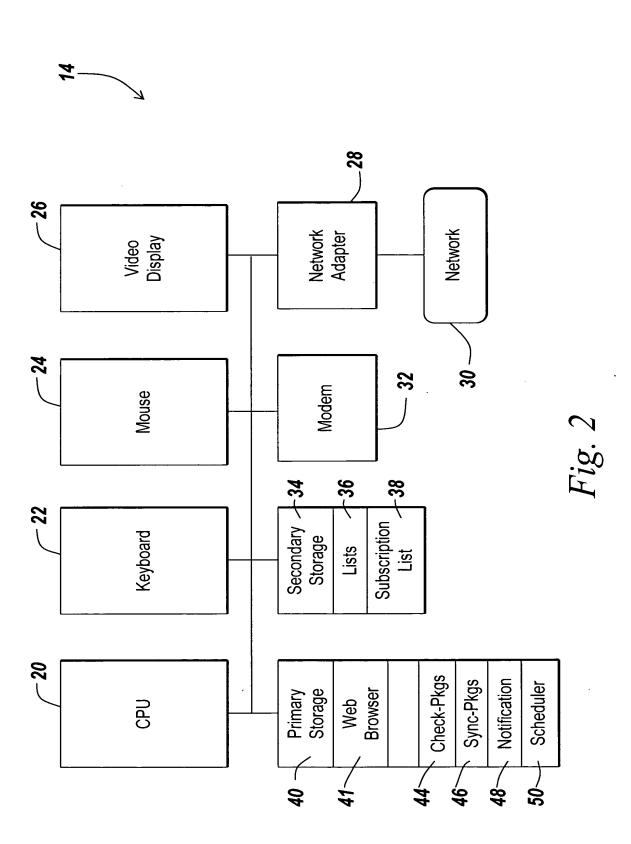
14   14   14

Fig. 1

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Fig. 2

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```
            ╭─────────────────╮
            │   Add Package   │
            ╰─────────────────╯
                     │
                     ▼
            ┌─────────────────┐      52
            │  Stage Package  │
            │  or Repository  │
            │     Server      │
            └─────────────────┘
                     │
                     ▼
            ┌─────────────────┐      54
            │     Update      │
            │    Package      │
            │     Index       │
            └─────────────────┘
                     │
                     ▼
            ╭─────────────────╮
            │     Return      │
            ╰─────────────────╯
```

Fig. 3

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Name	Version	Type	Location
coyote	2.0	0	http://www.arizona.com/coyote
roadrunner	1.2	R	http://www.arizona.com/roadrunner
rocketskates	1.0	P-wecoyote	ftp://ftp.acne.com/beta/rocketskates
dynamite	1.1	0	location1, location2, location3

62   64   66   68

70   72   74   75

Package Index, 60

Fig. 4

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```
        ╭─────────────╮
        │   Update    │
        ╰─────────────╯
               │
               ▼
        ┌─────────────┐
        │   Trigger   │──── 80
    ┌──▶│   Update    │
    │   └─────────────┘
    │          │
    │          ▼
    │   ┌─────────────┐
    │   │   Perform   │──── 82
    │   │   Update    │
    │   └─────────────┘
    │          │
    │          ▼
    │   ┌─────────────┐
    └───│    Wait     │──── 84
        └─────────────┘
```

Fig. 5

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```
              ┌─────────────────────┐
             (    Update Client      )
              └──────────┬──────────┘
                         │
                         ▼
          ┌─┃─────────────────────┃─┐          90
          │ ┃    Check-Pkgs        ┃ │ ─────⟋
          └─┃─────────────────────┃─┘
                         │
                         ▼
          ┌─┃─────────────────────┃─┐          92
          │ ┃    Sync-Pkgs         ┃ │ ─────⟋
          └─┃─────────────────────┃─┘
                         │
                         ▼
          ┌─┃─────────────────────┃─┐          94
          │ ┃    Notification      ┃ │ ─────⟋
          └─┃─────────────────────┃─┘
                         │
                         ▼
              ┌─────────────────────┐
             (        Return         )
              └─────────────────────┘
```

Fig. 6

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```
          ┌──────────────────┐
          │    Check-Pkgs    │
          └──────────────────┘
                   │
                   ▼
     ┌─────────────────────────────┐      100
     │  Retrieve Package Index and │
     │  Separate List with Published│
     │     State of Packages        │
     └─────────────────────────────┘
                   │
                   ▼
     ┌─────────────────────────────┐      102
     │    Query Client System to    │
     │  Generate List with Installation│
     │      State of Packages       │
     └─────────────────────────────┘
                   │
                   ▼
     ┌─────────────────────────────┐      104
     │  Parse Local Subscription List│
     │  to Generate List of Subscribed│
     │          Packages            │
     └─────────────────────────────┘
                   │
                   ▼
     ┌─────────────────────────────┐      106
     │     Processing of Lists to   │
     │      Generate Final List     │
     └─────────────────────────────┘
                   │
                   ▼
          ┌──────────────────┐
          │      Return      │
          └──────────────────┘
```
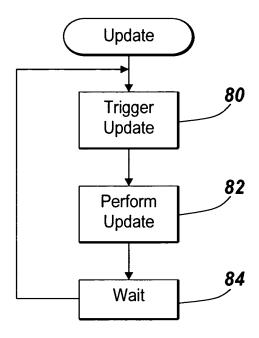
Fig. 7
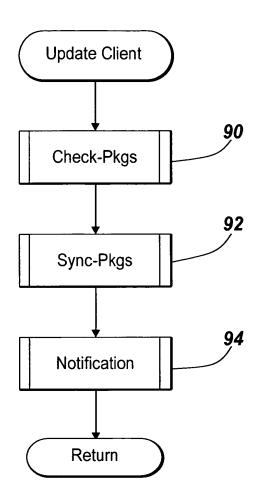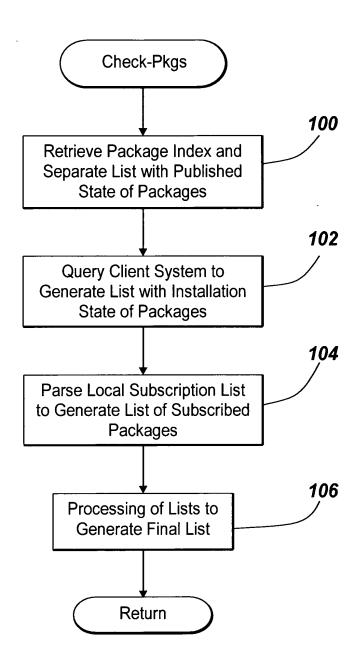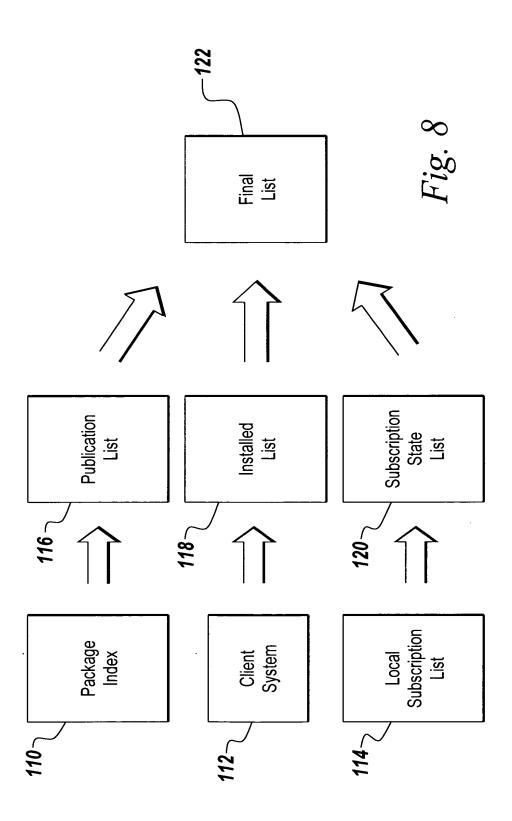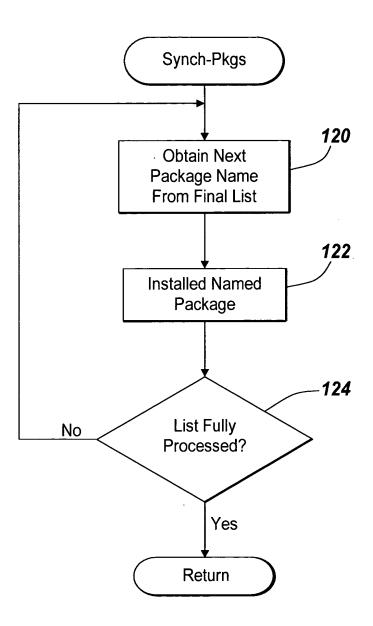
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Fig. 8

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Subscription List, *114*

Package1
Package4
Package5

Fig. 9

10/12

```
              ┌─────────────────┐
              │   Synch-Pkgs    │
              └────────┬────────┘
                       │
    ┌──────────────────┤
    │                  ▼
    │         ┌─────────────────┐
    │         │  Obtain Next    │        120
    │         │  Package Name   │
    │         │  From Final List│
    │         └────────┬────────┘
    │                  │
    │                  ▼
    │         ┌─────────────────┐
    │         │ Installed Named │        122
    │         │    Package      │
    │         └────────┬────────┘
    │                  │
    │                  ▼
    │            ◇───────────◇           124
    │  No       ╱ List Fully  ╲
    └──────────╱  Processed?   ╲
               ╲               ╱
                ◇─────┬───────◇
                      │ Yes
                      ▼
              ┌─────────────────┐
              │     Return      │
              └─────────────────┘
```

Fig. 10

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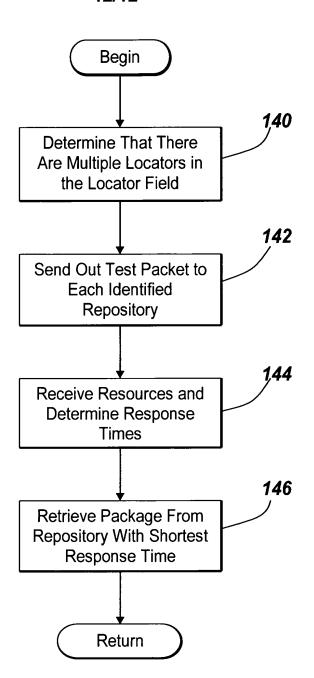| 132	134	136
Package	Repository Server	Errors
Package1	Repository2	None
Package5	Repository1	Insufficent Memory

Notification, **130**

Fig. 11

12/12

Begin

Determine That There
Are Multiple Locators in
the Locator Field   **140**

Send Out Test Packet to
Each Identified
Repository   **142**

Receive Resources and
Determine Response
Times   **144**

Retrieve Package From
Repository With Shortest
Response Time   **146**

Return

Fig. 12